Message

From: Grantham, Nancy [Grantham.Nancy@epa.gov]

Sent: 11/23/2020 12:34:19 PM

To: Deegan, Dave [Deegan.Dave@epa.gov]; Deziel, Dennis [Deziel.Dennis@epa.gov]; Szaro, Deb [Szaro.Deb@epa.gov];

Gutro, Doug [Gutro.Doug@epa.gov]; Norcross, Jeffrey [Norcross.Jeffrey@epa.gov]; McGuire, Karen

[Mcguire.Karen@epa.gov]

CC: Leifer, Kerry [Leifer.Kerry@epa.gov]; Dennis, Allison [Dennis.Allison@epa.gov]; Hull, George [Hull.George@epa.gov];

Drinkard, Andrea [Drinkard.Andrea@epa.gov]; Siedschlag, Gregory [Siedschlag.Gregory@epa.gov]; Press

[Press@epa.gov]

Subject: RE: Globe PFAS story

Attachments: PFAS Anvil letter to DEP DA.docx; State use of Anvil 10+10 (updated 11.9.20) DA.docx; Summary of PFAS in Anvil test

results fnl DA.docx; EPA letter -- PFAS DA.docx; PFAS Fact Sheet for Anvil release FINAL for Review DA.docx;

11_20_Aerially Sprayed Pesticide Contains PFAS DA (1).docx

Looping press box thanks ng

From: Deegan, Dave <Deegan.Dave@epa.gov> Sent: Monday, November 23, 2020 7:33 AM

To: Deziel, Dennis <Deziel.Dennis@epa.gov>; Szaro, Deb <Szaro.Deb@epa.gov>; Gutro, Doug <Gutro.Doug@epa.gov>;

Norcross, Jeffrey < Norcross.Jeffrey@epa.gov>; McGuire, Karen < Mcguire.Karen@epa.gov>

Cc: Grantham, Nancy < Grantham. Nancy@epa.gov>; Leifer, Kerry < Leifer. Kerry@epa.gov>; Dennis, Allison

<Dennis.Allison@epa.gov>; Hull, George <Hull.George@epa.gov>; Drinkard, Andrea <Drinkard.Andrea@epa.gov>;

Siedschlag, Gregory < Siedschlag. Gregory@epa.gov>

Subject: Fwd: Globe PFAS story

Hi All, flagging for awareness Boston Globe inquiry below.

Assuming we will coordinate between HQ and region.

Dave

Dave Deegan
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Office of Public Affairs
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617.918.1017 office
617.594.7068 iPhone

Begin forwarded message:

From: "Abel, David" < dabel@globe.com > Date: November 22, 2020 at 6:14:43 PM EST

To: "Leifer, Kerry" < Leifer. Kerry@epa.gov >, "Deegan, Dave" < Deegan.Dave@epa.gov >

Subject: Globe PFAS story

Hi Kerry and Dave,

I hope all's well. I'm working on a potential story about elevated levels of PFAS found in Anvil, the insecticide Massachusetts and other states use to spray for EEE. Below is a table of findings

from DEP, as well as a press release and other documents from PEER, urging the state to ban the use of the chemicals.

Just wondering if you could respond to these questions:

- -- Are these findings of PFAS in Anvil from the DEP concerning, and if so, why or why not?
- -- Should we be as concerned about forever chemicals (which don't degrade) being sprayed by air and truck entering drinking water and other water systems, and if so, why?
- -- Based on these findings, should the EPA or states ban the use of these chemicals, and if so, why or why not?

Thanks!

Best, David

Summary Table of PFAS Concentrations from MassDEP Anvil 10 + 10 Sampling:

Sample collection date	9/22	9/22	9/22	9/22	9/22	10/21	10/21	10/21	10/21	10/22
Sample type	55 gal. drum 1	55	CONTROL:	2.5 gal.	sampling	55	55	55 gal.	Sampling	2.5 gal.
		gal.	sampling	jug 1	device	gal.	gal.	drum	device	jug 2
		drum	device	(SAMPLE	rinse	drum	drum	3 and	rinse	and
		2	rinse	3)	cntrl.	1	2	dupli-	cntrl. for	Dupli-
			cntrl. for		2.5 gal.			cate	55 gal.	cate
			55 gal.		jug 1			sample	drum 1	sample
			drum 1						and 2	
			and 2							
PFAS Compound	Concentration in nanograms per liter (ng/L) or part per trillion (ppt)									
Perfluorobutanoic Acid	692	171	ND	52.8 J	ND	716	174	230	ND	59.2 J
(PFBA)			ND					216	ND	62.9 J
Perfluoro-3-Methoxypropanoic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acid (PFMPA)			ND					ND	ND	ND
Perfluoropentanoic Acid	296	76.6	0.370 J	35.2 J	ND	290	55.4 J	88.7 J	ND	41.5 J
(PFPeA)		J	ND					84.7 J	ND	41.2 J
Perfluorobutanesulfonic Acid	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(PFBS)			ND					ND	ND	ND
Perfluoro-4-Methoxybutanoic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acid (PFMBA)			ND					ND	ND	ND
Perfluoro(2-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethoxyethane)Sulfonic Acid			ND					ND	ND	ND
(PFEESA)										
Nonafluoro-3,6-Dioxaheptanoic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acid (NFDHA)			ND					ND	ND	ND
1H,1H,2H,2H-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorohexanesulfonic Acid			ND					ND	ND	ND
(4:2FTS)										
Perfluorohexanoic Acid	132	41.2	0.407 J	17.6 J	0.461 J	105	23.7 J	37.4 J	ND	19.7 J
(PFHxA)		J	ND		·			42.3 J	ND	ND
Perfluoropentanesulfonic Acid	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
(PFPeS)			ND					ND	ND	ND
2,3,3,3-Tetrafluoro-2-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
[1,1,2,2,3,3,3-			ND					ND	ND	ND
Heptafluoropropoxy]-Propanoic										
Acid (HFPO-DA)										
Perfluoroheptanoic Acid	53.4 J	23.6	ND	ND	ND	47.6 [ND	ND	ND	ND
(PFHpA)	,	I	ND			,		19.2 J	ND	ND
Perfluorohexanesulfonic Acid	ND	ND	ND	52.8]	ND	ND	ND	ND	ND	59.2 J
(PFHxS)			ND					ND	ND	57 J
4,8-Dioxa-3h-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perfluorononanoic Acid			ND					ND	ND	ND
(ADONA)										
1H,1H,2H,2H-	ND	ND	ND	ND	ND	29.8 [31.6 J	27.6 J	ND	ND
Perfluorooctanesulfonic Acid			ND				,	28.9 J	ND	ND
(6:2FTS)			_						_	
	l	1	1	1		1	1	1		

Perfluorooctanoic Acid (PFOA)	25.7 J	ND	ND ND	ND	ND	21.8 J	ND	ND ND	ND ND	ND ND
Perfluoroheptanesulfonic Acid (PFHpS)	107	100	ND ND	125	ND	ND	98.9	63.0 J 52.0 J	ND ND	138 108
Perfluorononanoic Acid (PFNA)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluorooctanesulfonic Acid (PFOS)	73.1 J	ND	ND ND	76.2 J	2.73	ND	ND	ND ND	3.31 ND	132 141
9-Chlorohexadecafluoro-3- Oxanone-1-Sulfonic Acid (9Cl- PF3ONS)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
1H,1H,2H,2H- Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluorodecanoic Acid (PFDA)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluoroundecanoic Acid (PFUnA)	13.8 J	ND	ND ND	21.5 J	ND	184	ND	ND ND	ND ND	ND ND
11-Chloroeicosafluoro-3- Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluorododecanoic Acid (PFDoA)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND

Table notes: ND = not detected; J = estimated value; Tube rinse cntrl. = sampling device rinsates performed at sampling site prior to sample collection to assess any sampling device contamination. All field and trip blanks were generally non-detect and are not presented. In one, PFOS was detected at 3.3 ppt.

All samples were analyzed by Alpha Analytical, Mansfield, MA. using a modified version of EPA Method 533. Stated reporting limits for product samples were below 100 ng/L with detection limits ranging from approximately 5-50 ng/L depending on the analyte. QA/QC issues were appropriately noted by Alpha Analytical in the lab reports but all QA/QC elements have not been fully reviewed by MassDEP at this time.

The September and October samples were collected by two different contractors using new sampling devices. The October 2.5 gallon jug samples were directly poured into the sample collection tubes.

Initial samples that were collected on 9/2 are not presented. These were invalidated because appropriate field controls were not collected by the contractor and results were consistent with samples being contaminated during collection. In that round, five to thirteen PFAS were detected in duplicate analyses of the single drum 1 sample collected, with a maximum concentration of 25 μ (25,000 ppt) for PFBA.

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